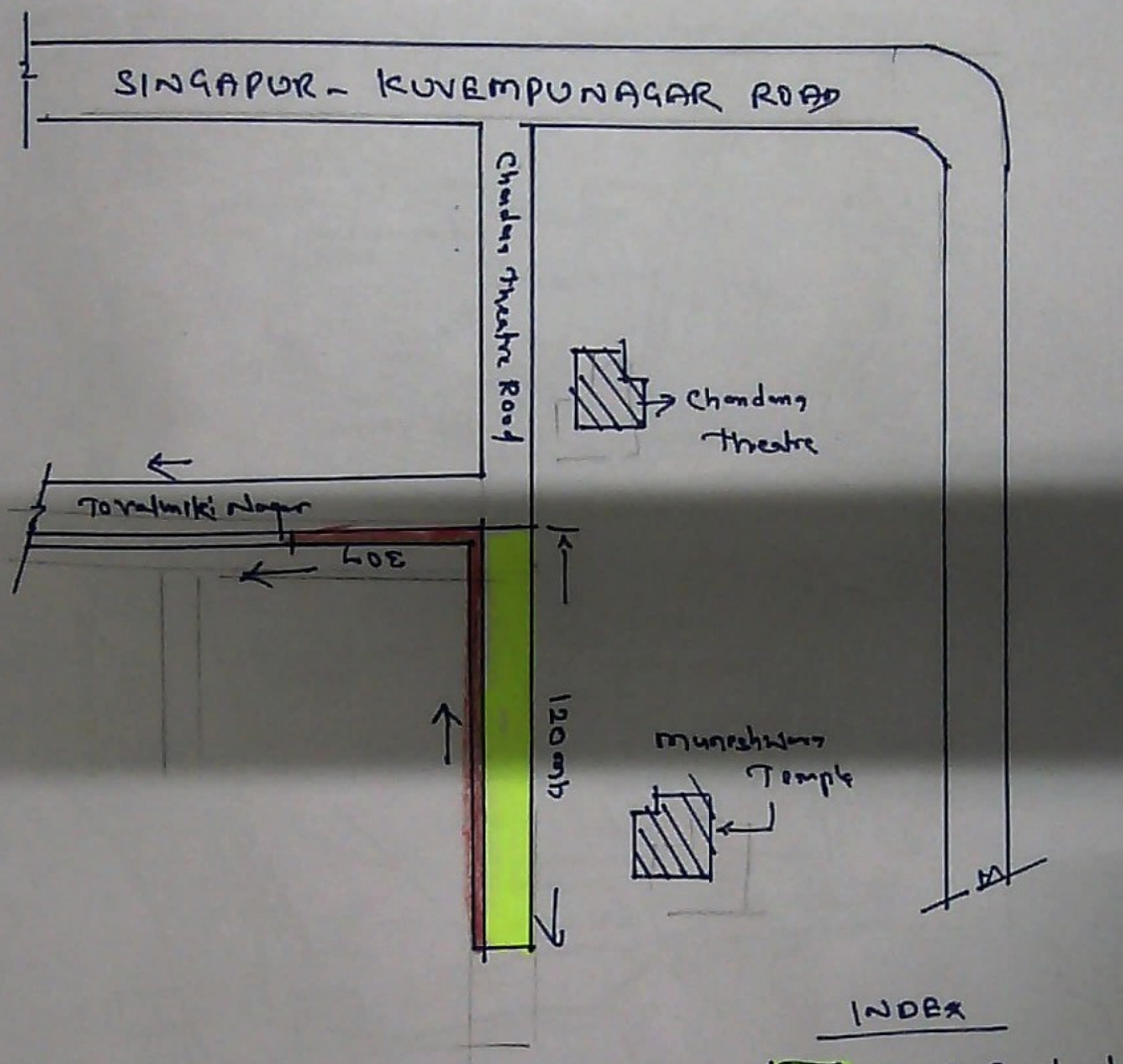
Name of Work :- Imp to Road and drain and Asphalting to Road from Chandana Talkies to Muneshwara Temple Singapura layout in Ward No. 11 (Kuvempunagar)



Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Road, Drain and Asphalting to Road from Chandana Takis to Muneshwara Temple, Singapura Layout in Ward No. 11 (Kuvempunagara) Vidyaranyapura Sub Division.**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			Estimate Cost:					**2475000.00**	
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	RCC Drain								
	For Road Work		1	162.00	1.10	1.05	187.11		
			1	120.00	6.00	0.30	216.00		
							403.11	243.88	**98310.00**
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Sub Total	**137.80**							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
	Total	**243.88**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.13, Item No. 4.3 of PWD SR 2018-19**	Cum							
	CC Drain		1	162.00	1.10	0.15	26.73		
							26.73	5408.12	**144559.00**
	Basic Rate	5102.00							
	Area Weightage @ 6%	306.12							
	Total	**5408.12**							
3	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2018-19**	Cum							
	For RCC Drain bottom		1	162.00	1.10	0.15	26.73		
	side wall		2	162.00	0.15	0.70	34.02		
							60.75	5770.64	**350566.00**
	Basic Rate	5444.00							
	Area Weightage @ 6%	326.64							
	Total	**5770.64**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 16 / Item No. 4.31 PWD SR 2018-19**	Sqm							
	RCC Drain Side Wall		4	162.00		0.70	453.60		
							453.60	379.48	**172132.00**
	Basic Rate	358.00							
	Area Weightage @ 6%	21.48							
	Total	**379.48**							
5	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **- TMT bars Fe 500 Page No. 18 / Item No. 4.46.2. PWD SR 2018-19**	Tonne							
				60.75	0.060	T/cum	**3.65**	75223.96	**274191.00**
	Basic Rate	70966.00							
	Area Weightage @ 6%	4257.96							
	Total	**75223.96**							
6	Providing **precast slab of 100mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge- Data rate	Sqm							
	Covering Slab		1	162.00		0.90	145.80		
							145.80	2337.00	**340735.00**
	Approved Data rate	**2337.00**							
7	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 155 / Item No. 20.18, PWD SR 2018-19**	Cum							
			1	120.00	6.00	0.25	180.00		
							180.00	2001.28	**360230.00**
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	**2001.28**							
8	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 158 / Item No. 21.6, PWD SR 2018-19**	Sqm							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			1	120.00	6.00		720.00		
							720.00	36.04	**25949.00**
	Basic Rate	34.00							
	Area Weightage @ 6%	2.04							
	Total	**36.04**							
9	KSRRB 500-11. Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using **40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen Page No. 159 / Item No. 21.11.6, PWD SR 2018-19**	Cum							
			1	120.00	6.00	0.05	36.00		
							36.00	5551.22	**199844.00**
	Basic Rate	5237.00							
	Area Weightage @ 6%	314.22							
	Total	**5551.22**							
10	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **Page No. 158 / Item No. 21.2, PWD SR 2018-19**	Sqm							
			1	120.00	6.00		720.00		
							720.00	5.30	**3816.00**
	Basic Rate	5.00							
	Area Weightage @ 6%	0.30							
	Total	**5.30**							
11	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **Page No. 158 / Item No. 21.7 PWD SR 2018-19**	Sqm							
			Qty Vide Item No. 10				720.00		
	asper Revised Basic Rate	14.00					**720.00**	14.84	**10685.00**
	Area Weightage @ 6%	0.84							
	Total	**14.84**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
12	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500 9 complete in all respects complete as per specifications. MORTH Specification No. 509 - **using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen Page No. 162 / Item No. 21.22.6, PWD SR 2018-19**	Cum							
			1	120.00	6.00	0.040	28.80		
	Revised Basic Rate	7464.00					**28.80**	7911.84	**227861.00**
	Area Weightage @ 6%	447.84							
	Total	**7911.84**							
	Sub Total								**2208878.00**
	GST @ 12%								**265065.00**
	Miscellaneous and other Charges	L/S							**1057.00**
								Total	**2475000.00**
Rupees Twenty Four Lakh(s) Seventy Five Thousand Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.

2 This estimate is prepared as per PWD SR of 2018-19.

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval

Accorded For Rs 24.75 lakhs only
Head of A/C 20541
CER NO 67A Dt 10.07.2019

CE (YNK)

Technical Sanction

Accorded For Rs 24.75 lakhs only
Head of A/C 20541
CER NO 51A Dt 10.07.2019

CE (YNK)